IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) ~~Device~~ A device for recording information in a track ~~(11)~~ on a record carrier ~~(4)~~, the device comprising:

[[-]] a head ~~(22)~~ for generating a beam of radiation for writing marks and spaces between the marks, and for generating at least one read signal in dependence on the marks and spaces, the marks and spaces each having a nominal run length of a predetermined number of bits, and the run lengths constituting a recorded pattern having a multitude of different run lengths for representing the information,

[[-]] detection means ~~(32)~~ coupled to the read signal for generating a signed deviation value signal ~~(34)~~ indicative for a position deviation of a starting edge of a mark and/or an ending

edge of a mark with respect to a nominal position of said edge,

[[-]] calculation means (31) for selecting at least one

predefined run length pattern and determining a correction signal

(33) based on at least one statistically calculated parameter of

the signed deviation value signal for the selected run length

pattern,

and

[[-]] radiation source control means (29) for controlling the

power of the radiation source during said writing in dependence of

the correction signal.

2.(Currently Amended) Device The device as claimed in claim

1, wherein the calculation means (31) are arranged for calculating

a mean value of the a runlength between the starting edge and the

ending edge of marks as the parameter of the signed deviation value

signal.

3.(Currently Amended) Device The device as claimed in claim

1, wherein the calculation means (31) are arranged for calculating

a mean value of the position deviation of the starting edge and/or

the ending edge as the parameter of the signed deviation value

signal.

4. (Currently Amended) ~~Device~~ The device as claimed in claim

1, wherein the calculation means ~~(31)~~ are arranged for selecting as

the run length pattern marks and/or spaces nominally having

[[-]] a single predefined run length, or

[[-]] run lengths in a limited range of run lengths, or

[[-]] a run length sequence including at least a mark and at

least one space having predefined run lengths.

5. (Currently Amended) ~~Device~~ The device as claimed in claim

4, wherein the calculation means ~~(31)~~ are arranged for calculating

a mean value of said parameter in dependence of the size of a space

preceding the starting edge or following the ending edge of the

mark.

6. (Currently Amended) ~~Device~~ The device as claimed in claim

5, wherein the calculation means ~~(31)~~ are arranged for calculating

a pre-heat effect of a mark in dependence of the space preceding

the starting edge of the mark by comparing a first mean value

calculated for a relative short space before the mark and a second

mean value calculated for a relative long space before the mark.

7. (Currently Amended) ~~Device~~ The device as claimed in claim

6, wherein the radiation source control means ~~(29)~~ are arranged for

controlling the power of the radiation source at the beginning of

writing a mark in dependence of the pre-heat effect.

8. (Currently Amended) ~~Device~~ The device as claimed in claim

1, wherein the detection means ~~(32)~~ are arranged for generating the

signed deviation value signal during an optimum power control mode

~~(OPC)~~, in which mode test information is written and the radiation

source control means are controlling the power of the radiation

source during said writing at an optimum power according to

predefined settings and/or previously generated values of the

correction signal.

9. (Currently Amended) ~~Device~~ The device as claimed in claim

1, wherein the detection means ~~(32)~~ are arranged for generating the

signed deviation value signal during said writing, during which

writing the radiation source control means are controlling the

power of the radiation source at an optimum power according to

predefined settings and/or previously generated values of the

correction signal, by temporarily interrupting said writing and

during said interruption reading a part of the recorded pattern for

generating the read signal.

10. (Currently Amended)   ~~Method~~ A method of controlling the

power of a radiation source during recording information in a track

on a record carrier, the method comprising the acts of:

[[-]] writing and reading marks and spaces between the marks,

the marks and spaces each having a nominal run length of a

predetermined number of bits, and the run lengths constituting a

recorded pattern having a multitude of different run lengths for

representing the information,

[-]] generating a signed deviation value signal indicative for

a position deviation of a starting edge of a mark and/or an ending

edge of a mark with respect to a nominal position of said edge,

[[-]] selecting at least one predefined run length pattern,

[[-]] determining a correction signal based on at least one

statistically calculated parameter of the signed deviation value

signal for the selected run length pattern

and

[[-]] controlling the power of the radiation source during

said writing in dependence of the correction signal.

11.(Currently Amended)   ~~Record~~ A record carrier of a

recordable type comprising a track for recording information, the

recording comprising:

[[-]] writing and reading marks and spaces between the marks,

the marks and spaces each having a nominal run length of a

predetermined number of bits, and the run lengths constituting a

recorded pattern having a multitude of different run lengths for

representing the information, and

[[-]] an optimum power control process including

[[-]] generating a signed deviation value signal

indicative for a position deviation of a starting edge of a mark

and/or an ending edge of a mark with respect to a nominal position

of said edge,

[[-]] selecting at least one predefined run length

pattern,

[[-]] determining a correction signal based on at least

one statistically calculated parameter of the signed deviation

value signal for the selected run length pattern

and

[[-]] controlling the power of the radiation source

during said writing in dependence of the correction signal,

the record carrier comprising prerecorded control

information for adjusting the optimum power control process.

12.(New)   The device of claim 1, wherein the statistically

calculated parameter comprises a mean value of a runlength between

the starting edge and the ending edge of marks as the parameter of

the signed deviation value signal.

13.(New)   The device of claim 1, wherein the statistically

calculated parameter comprises a mean value of the position

deviation of the starting edge and/or the ending edge as the

parameter of the signed deviation value signal.

14.(New)   The device of claim 1, wherein the nominal position of said edge is at half an interval between two adjacent samples having different signs.

15.(New)   The method of claim 10, wherein the statistically calculated parameter comprises a mean value of a runlength between the starting edge and the ending edge of marks as the parameter of the signed deviation value signal.

16.(New)   The method of claim 10, wherein the statistically calculated parameter comprises a mean value of the position deviation of the starting edge and/or the ending edge as the parameter of the signed deviation value signal.

17.(New)   The method of claim 10, wherein the nominal position of said edge is at half an interval between two adjacent samples having different signs.

18.(New)   The record carrier of claim 11, wherein the

statistically calculated parameter comprises a mean value of a runlength between the starting edge and the ending edge of marks as the parameter of the signed deviation value signal.

19.(New)   The record carrier of claim 11, wherein the statistically calculated parameter comprises a mean value of the position deviation of the starting edge and/or the ending edge as the parameter of the signed deviation value signal.

20.(New)   The record carrier of claim 11, wherein the nominal position of said edge is at half an interval between two adjacent samples having different signs.